

## SENP7 Protein, Human

<b>Cat. No.:</b>	HY-P71289
<b>Synonyms:</b>	Sentrin-Specific Protease 7; SUMO-1-Specific Protease 2; Sentrin/SUMO-Specific Protease SENP7; SENP7; KIAA1707; SSP2; SUSP2
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9BQF6 (M695-A864)
<b>Gene ID:</b>	57337
<b>Molecular Weight:</b>	Approximately 22.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M K L K S V S Q P S    N T D A A K P T Y T    F L Q K Q S S G C Y    S L S I T S N P D E</p> <p>E W R E V R H T G L    V Q K L I V Y P P P    P T K G G L G V T N    E D L E C L E E G E</p> <p>F L N D V I I D F Y    L K Y L I L E K A S    D E L V E R S H I F    S S F F Y K C L T R</p> <p>K E N N L T E D N P    N L S M A Q R R H K    R V R T W T R H I N    I F N K D Y I F V P</p> <p>V N E S S H W Y L A</p>
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM HEPES, 5% Glycerol, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<p>SENP7, a multifaceted protease, emerges as a positive regulator of the cGAS-STING pathway by facilitating the desumoylation of CGAS. This desumoylation process enhances the DNA-binding activity of CGAS, leading to its oligomerization and subsequent activation. SENP7 exhibits specificity in its desumoylation activity, targeting SUMO2 and SUMO3 but not SUMO1. Furthermore, the enzyme demonstrates proficiency in deconjugating poly-SUMO2 and poly-SUMO3 chains, contributing to the dynamic regulation of protein sumoylation. While SENP7 exhibits comparatively lower efficiency in processing full-length SUMO proteins to their mature forms, its role in modulating the cGAS-STING pathway underscores its significance in innate immune responses.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA